

PRODUCT SUBMITTAL

Submitted to:

Project:

Date of Submittal:

Submitted by, Contact name:

Company:

Address:

Phone:

Email:

Approved

Approved as Noted

Not Approved

Comments:

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By:

Date:

List of items from Table A submitted for the project:

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Product Family - DFH - Self-Drilling (Pilot) Flat Head Hi-Lo Thread

TABLE A

Item Number	Screw Size (#)	Length (in.)	Head Style	Head Diameter (in.)	TPI	Point Size	Coating	Maximum Total Drilling Thickness (in.)	Drive Type	Bulk Quantity	Special Feature
C10150L3YZH	10	1-1/2	Flat	0.368	15 Hi-Lo	#3 Pilot	Yellow Zinc	0.175	#3 LOX	1,000	with Wings, Collated
C10175L3YZE	10	1-3/4	Flat	0.368	15 Hi-Lo	#3 Pilot	Yellow Zinc	0.175	#3 LOX	1,000	with Wings, Collated
10200L3YZE	10	2	Flat	0.368	15 Hi-Lo	#3 Pilot	Yellow Zinc	0.175	#3 LOX	3,500	with Wings
C10200L3YZE	10	2	Flat	0.368	15 Hi-Lo	#3 Pilot	Yellow Zinc	0.175	#3 LOX	1,000	with Wings, Collated
C10200L3GE	10	2	Flat	0.368	15 Hi-Lo	#3 Pilot	GrabberGard®	0.175	#3 LOX	1,000	with Wings, Collated
C10250L3YZE	10	2-1/2	Flat	0.368	15 Hi-Lo	#3 Pilot	Yellow Zinc	0.175	#3 LOX	1,000	with Wings, Collated
10250SDL3M	10	2-1/2	Flat	0.368	15 Hi-Lo	#3 Pilot	GrabberGard®	0.175	#3 LOX	2,000	
12350SDL3M	12	3-1/2	Flat	0.368	15 Hi-Lo	#3 Pilot	GrabberGard®	0.210	#3 LOX	1,000	

Grabber screws manufactured in America are available as SPECIAL-ORDER INVENTORY. CONTACT GRABBER FOR CURRENT PRICE AND AVAILABILITY. For identification purposes, an "A" will added to the end of the item number and "Made in America" will be printed on the label.

Prefixes: C = Collated, X = 1-lb, VB = 5-lb, BP = Blister Pack

Description: Self-drilling flat head screw used in heavy-gauge (see TABLE A - *Maximum Total Drilling Thickness*) wood-to-metal applications. Self tapping drill point is designed for penetration into heavy-gauge steel. Screws with special featured wings on the drill point eliminate the need to pre-drill the wood.

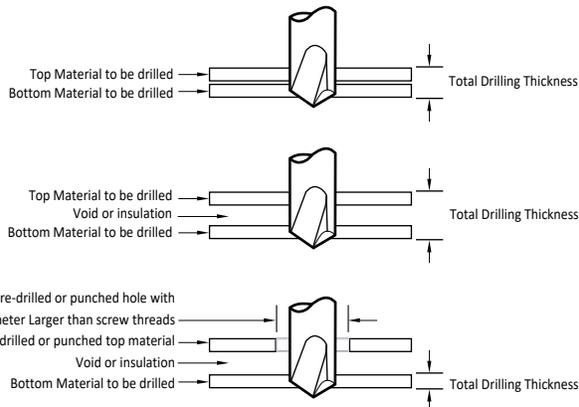
Directions: Use a standard screwgun with a depth sensitive nose piece. Suggested screwgun specification for optimal performance - Size #10, Up to 2500 RPM, Size #12, Up to 1800 RPM. Overdriving may result in failure of the fastener.

Corrosion: For Corrosion Resistance Testing Results, see TABLE B.

Certifications: All GRABBER® screw products are manufactured in facilities that are ISO 9001. DFH fasteners comply with ASTM C1513 requirements.

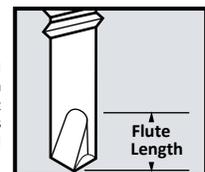
Self-Drilling Screw Selection Guide

DRILL POINT SELECTION



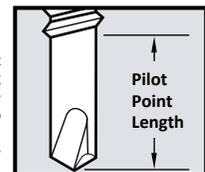
Drill Flute (Point Length)

The length of the drill flute determines the metal thickness that can be drilled. The flute itself provides a channel for chip removal during drilling action. If it becomes completely embedded in material, drill chips will be trapped in the flute and cutting action will cease. This will cause the point to burn up or break.



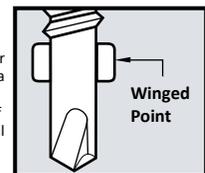
Pilot Point Length

The un-threaded section from the point to the first thread should be long enough to assure the drilling action is complete before the first thread engages the drilled metal. Screw threads advance at a rate of up to ten times faster than the drill flute can remove metal. All drilling therefore should be complete before threads begin to form.



Drilling Through Wood To Metal

If your application calls for drilling through wood over 1/2-in. thick, a clearance hole is required. Select a fastener with break away wings for this type of job. The wings will ream a clearance hole and break-off when in contact with metal surface (minimum metal thickness .040-in.) to be drilled.



DFH - Self-Drilling (Pilot) Flat Head Hi-Lo Thread

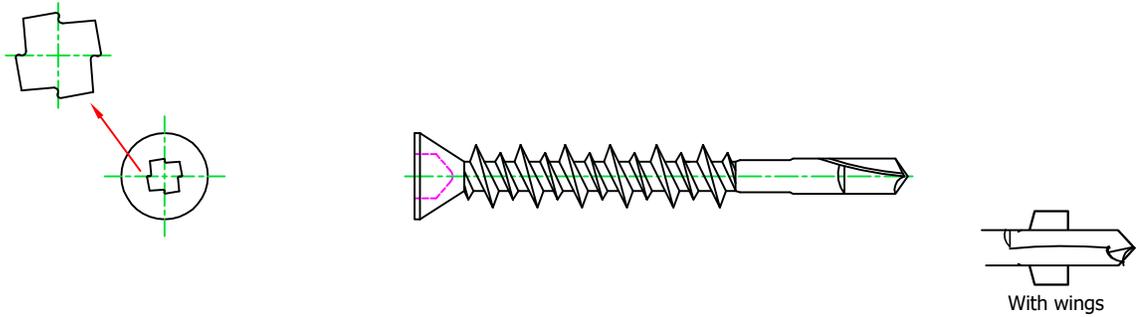


TABLE B

CORROSION RESISTANCE TESTING RESULTS			
Finish	Test	Standard/Protocol	Results (minimum)
(YZ) Yellow Zinc	Salt Spray	ASTM B117	24 hours, no red rust
(RG) GrabberGard®	Salt Spray	ASTM B117	1000 hours, no red rust

NOTE: Salt Spray Testing (SST) results are not intended to predict corrosion resistance in real-world environments. The ASTM B117 standard for SST is recognized industry-wide as an effective tool to compare different metals and different metal coatings in a tightly controlled highly corrosive environment for specific periods of time. For more information about corrosion resistance, see the *Grabber Guide to Corrosion Resistance for Fasteners*.

Grabber's approved mills keep tight control over all production standards and processes. Grabber's mills are ISO 9001 ensuring Grabber fasteners meet or exceed the highest industry standards.

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 GrabberGard®
 LOX®

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